

## **BYPASS WATER VALVE**

### ABSTRACT OF THE DISCLOSURE

A single 180-degree turn of a knob moves the valve between sending water through the softener/filter unit and bypassing it. The knob is attached to a geared shaft. The geared shaft mates with a geared piston. This piston contains 2  
5 cylindrical sealing surfaces riding axially in an inner bore connected to the in and out ports for the plumbing. In service, one of the sealing surfaces seals in the middle of the inner bore, forcing flow down into the unit. Turning the bypass knob translates the piston so that one sealing surface seals one end of the inner bore while the other sealing surface seals the other end. This blocks flow from entering the unit and  
10 provides a flow path directly from the in port to the out port.